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**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**

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FR

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/595,765	06/16/00	RANISH	J 03998-437001

MM91/0730

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EXAMINER

TRUONG, B

ART UNIT

PAPER NUMBER

2875

DATE MAILED: 07/30/01

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.

09/595,765

Applicant(s)

RANISH, JOSEPH M.

Examiner

Bao Q. Truong

Art Unit

2875

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 16 June 2000.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6, 9-12 and 15-18 is/are rejected.
- 7) ☒ Claim(s) 7, 8, 13, 14, 19 and 20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Specification***

1. On page 5 line 25, "above 23□c" is above 23 degree C. On page 11 line 7, what is "\_\_\_\_\_"? Appropriate correction is required.

### ***Claim Objections***

2. Claims 7 and 13 are objected to because of the following informalities: is there missing ";" between a lamp and a ferrofluid in claim 7 line 3, claim 13 line 4 and claim 19 line 3? Appropriate correction is required.
3. Claim 6 is objected to because of the following informalities: Is the "a reflector cavity" in claim 6 line 4 different from the "a plurality of reflector cavities" in claim 1 line 4. If they are different, the applicant should describe clearly in the specification and show them in the drawing. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-6, 9-12, 15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peuse et al. [US 5,755,511] in view of Grimm [US 5,740,314] and Gronet et al. [US 5,155,336].

Regarding claims 1, 4, 9, 11, 15, and 17, Peuse et al. disclose a process chamber [100], a support structure [108], a substrate [106], a heating element [110] and plurality of lamp receptacles for Tungsten-halogen lamps (figures 3A and 12, column 7, lines 51-67). Peuse et al. disclose everything except for: the plurality of reflector cavities.

Grimm shows the use of reflectors [26] (figures 2 and 3, column 5, lines 1-5).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the reflectors [26] of Grimm in the light pipe made by metal of Peuse et al. [column 24, lines 45-50 containing Gronet et al. reference] in order to provide multiple reflectors.

Regarding claim 2, Gronet et al. disclose a plurality of coolant passages (figure 4, column 3, lines 30-51).

Regarding claim 3, Gronet et al. disclose brass, aluminum and other metal (column 3, line 42).

Regarding claim 5, Grimm discloses the claimed invention except for the reflective coating comprising gold and dielectric stack on the gold layer. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use gold material, since it has been held to be within the general skill of a worker in

the art to select a known material on the basis of its suitability for the intended use as a mater of obvious design choice. *In re Leshin*, 125 USPQ 416.

Regarding claims 6, 12 and 18, Grimm discloses electrical conductors [24], base [22], bulb [18] and reflector [26] (figures 1-3, column 5, lines 1-5).

Regarding claims 10 and 16, Peuse et al. disclose coolant circulates [146] (figure 3A, column 24, lines 53-60).

### ***Allowable Subject Matter***

6. Claims 7-8, 13-14 and 19-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter of claims 7, 13 and 19: the lampholder of the monolithic lamphead having a ferrofluid surrounding the outer leads of a lamp and one or more magnets disposing about the lampholder and maintaining the position of the ferrofluid near the receptacles of the lampholder. The limitations discussed above are neither disclosed nor taught by the prior art of records.

Claim 8 is depended on claim 7.

Claim 14 is depended on claim 13.

Claim 20 is depended on claim 19.

**Conclusion**

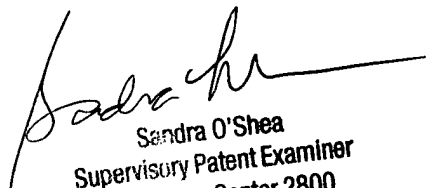
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Q. Truong whose telephone number is (703) 308-6452. The examiner can normally be reached on Monday-Friday (8:00 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L. O'Shea can be reached on (703) 035-4939. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7725 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 0956.

Bao Q. Truong  
Examiner  
Art Unit 2875

BQT  
July 24, 2001

  
Sandra O'Shea  
Supervisory Patent Examiner  
Technology Center 2800